

Datasheet: MCA467XZ

BATCH NUMBER 0413R

Description:	MOUSE ANTI HUMAN CD41:Preservative Free
Specificity:	CD41
Other names:	INTEGRIN ALPHA IIB
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	PM6/248
Isotype:	IgG1
Quantity:	1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/100 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting		▪		

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Baboon, Mink, Mustelid

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers None present

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Human platelet plasma membranes.

External Database Links

UniProt:

[P08514](#) [Related reagents](#)

Entrez Gene:

[3674](#) ITGA2B [Related reagents](#)

Synonyms GP2B, ITGAB

RRID AB_324395

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity **Mouse anti Human CD41 antibody, clone PM6/248** recognizes the human CD41 cell surface antigen, a ~140 kDa glycoprotein expressed by platelets and megakaryocytes. CD41 is also known as platelet glycoprotein IIb, and functions as a receptor for fibrinogen, fibronectin and vWF.

It has not been established if clone PM6/248 recognizes free CD41 or CD41 only when complexed with CD61. However, antibody binding is reduced in the presence of EDTA suggesting that the epitope recognized is dependent upon an intact CD41/61 complex.

Flow Cytometry Use 10ul of the suggested working dilution to label 100ul human whole blood.

References

1. Hornby, E.J. *et al.* (1991) Activation of human platelets by exposure to a monoclonal antibody, PM6/248, to glycoprotein IIb-IIIa. [Br J Haematol. 79 \(2\): 277-85.](#)
2. Michelson, A.D. *et al.* (1995) A panel of platelet mAb for the study of haemostasis and thrombosis in baboons. *Leucocyte Typing V*. Oxford University Press p 1230-1231.
3. Maloney, S.F. *ety al.* (2010) P2Y12 or P2Y1 inhibitors reduce platelet deposition in a microfluidic model of thrombosis while apyrase lacks efficacy under flow conditions. [Integr Biol \(Camb\). 2: 183-92.](#)
4. Aasted, B. *et al.* (2007) Reactivity of monoclonal antibodies to human CD antigens with cells from mink. [Vet Immunol Immunopathol. 119: 27-37.](#)
5. Massoudy, P. *et al.* (2001) Evidence for inflammatory responses of the lungs during

- coronary artery bypass grafting with cardiopulmonary bypass. [Chest. 119: 31-6.](#)
6. Kahng, J. *et al.* (2008) Quantitative comparisons of antibody-binding sites of platelet glycoprotein IIb/IIIa in aplastic anemia and idiopathic thrombocytopenic purpura. [Ann Clin Lab Sci. 38: 6-11.](#)
7. Chae, H. *et al.* (2009) EDTA Inhibits the Binding of Clone 96.2C1, an Anti-CD41a Monoclonal Antibody, to the Platelets and Addition of Heparin and CaCl₂ to the Antibody Neutralizes the EDTA-induced Inhibitory Effect [Korean J Hematol 44: 42 - 6.](#)
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9. Wang, J.S. *et al.* (2005) Effects of exercise training and deconditioning on platelet aggregation induced by alternating shear stress in men. [Arterioscler Thromb Vasc Biol. 25: 454-60.](#)
10. Welsh, J.D. *et al.* (2012) Platelet-targeting sensor reveals thrombin gradients within blood clots forming in microfluidic assays and in mouse. [J Thromb Haemost. 10 \(11\): 2344-53.](#)
11. Kamat, V. *et al.* (2015) Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. [Exp Hematol. 43 \(10\): 891-900.e4.](#)
12. Vučetić, D. *et al.* (2018) Flow cytometry analysis of platelet populations: usefulness for monitoring the storage lesion in pooled buffy-coat platelet concentrates. [Blood Transfus. 16 \(1\): 83-92.](#)
13. Foruzanmehr, M. *et al.* (2014) Nano-structure TiO₂ film coating on 316L stainless steel via sol-gel technique for blood compatibility improvement *Nanomedicine J.* 1 (3): 128-36.

Storage

Store at -20°C only.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10162 available at: <https://www.bio-rad-antibodies.com/SDS/MCA467XZ>
10162

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- | | |
|---|----------------------|
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M367879:200529'

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